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PROTECTIVE CIRCUIT (54) OVERVOLTAGE

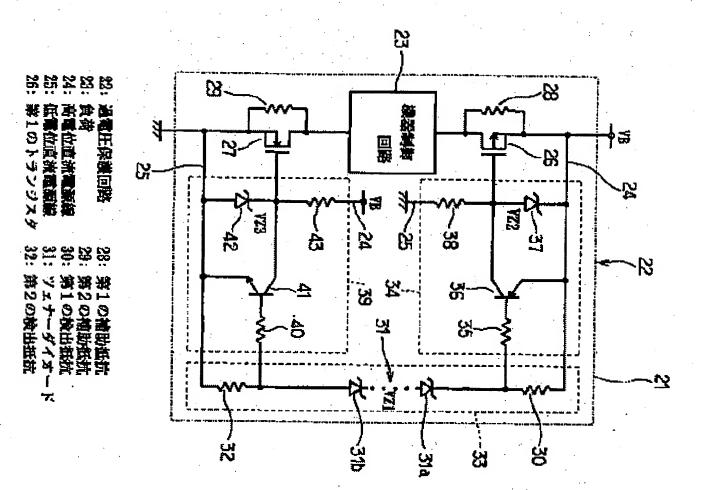
(57) Abstract:

one without the need for a design overvoltage higher than conventional change for increasing the withstand attain easy conversion into ICs and voltage of an element. protect a load even against PROBLEM TO BE SOLVED: To

SOLUTION: When power supply voltage VB between a power line 24

supply voltage VB equally, thus this as the withstand voltage. 23 up to overvoltage twice as much protect the apparatus control circuit overvoltage protection circuit 22 can respectively, and the MOS transistors MOS transistors 26, 27 are turned off. applied to an apparatus control circuit and the power supply voltage VB is MOS transistors 26, 27 are turned on Zener voltage 21 of a Zener diode 31 and a ground line 25 is lower than 26, 27 in an off state share the power resistors 28, 29 are set evenly transistors 26, 27 and the values of higher than the Zener voltage 21, the VB becomes overvoltage equal to or 23. When the power supply voltage The withstand voltage of the MOS

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